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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,364	03/26/2004	Kiyoaki Egawa	Q80674	7561
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2100 PENNSYLVANIA AVENUE, N.W.			LOWE, MICHAEL S	
SUITE 800 WASHINGTO	ON. DC 20037		ART UNIT	PAPER NUMBER
	- <b>,</b>	·	. 3652	
			MAIL DATE	DELIVERY MODE
			07/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Community	10/809,364	EGAWA, KIYOAKI			
Office Action Summary	Examiner	Art Unit			
	M. Scott Lowe	3652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>18 April 2007</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-5 and 8-17</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-5 and 8-17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>26 March 2004</u> is/are: a		by the Examiner			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. ☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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## **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the convex and concave portions of claim 3, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Applicant's reference to figure 11 is noted but not understood. It is unclear where the concave and convex portions are shown.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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# Claim Objections

Claim 1 is objected to because of the following informalities: line 4 should have an "a" before "first" and line 7 should have an "a" before "second". Also, claims 16 & 17, line 6 needs an "a" before "driving". All other claims should be reviewed for similar problems.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1,16,17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1, line 14 states "said driving device" but it is unclear whether this refers to the first or second driving device. For sake of examination it is assumed applicant meant "said second driving device".

Re claims 1,16,17, applicant has added limitations with the term "cums" which is not found in the dictionary (Merriam-Webster Online) and is thus unclear what is meant as the term is also used in the remarks but not further described. It is possible applicant meant "cams" instead but for sake of examination it is unclear what is meant and no patentable weight can be given this term.

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# Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3,11-17, are rejected under 35 U.S.C. 102(b) as being anticipated by Takeshi (2002-025167) or, in the alternative, under 35 U.S.C. 103(a) as obvious over Takeshi (2002-025167) in view of Yosheida (US 4,655,662).

Re claim 1,16,17, Takeshi teaches an apparatus for transporting a storage medium 9 from a holder 20 to a storage device D, said apparatus comprising: a base 4;

a carriage 30,5 driven by first driving force, said carriage being movable relative to said base 4 between said holder 20 and said storage device D;

a picker (31,34,etc.) provided on said carriage 30 and driven by second driving force, said picker selectively loading and unloading said storage medium 9;

a first driving device (52,etc.) generating said first driving force;

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a second driving device (51A,etc.) provided on said base and generating said second driving force; and

a transmission mechanism (51A,51a,etc.) transmitting said second driving force from said driving device to said picker allowing movement of said carriage;

wherein said picker has a gripper (34,39);

wherein said carriage has "cums" (applicant's term) which make said gripper open or close in response to the movement of said picker (gripper opens and closes to grab and release the storage medium 9 only at the location of the medium, since the gripper only gets to that spot by movement of the picker and its associated cams 33,38,etc., then it is taught that the gripper opens and closes in response to the picker's movement and the cams associated with that movement).

If it is determined that the said carriage lacks "cums" (applicant's term) which make said gripper open or close in response to the movement of said picker then the following applies:

Yoshieda teaches a carriage having cams 43,38 and a picker 15 with a gripper 17, wherein the gripper opens and closes in response to movement of the picker 15 in order to reduce power consumption (as opposed to a power actuated gripper). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Takeshi by the general teaching of Yosheida to have the carriage cams and a picker 15 with a gripper 17, wherein the gripper opens and closes in response to movement of the picker 15 in order to reduce power consumption.

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Re claim 2, Takeshi teaches said transmission mechanism comprises a rotary shaft (51A,etc.) and a coupling device (51a,51b,etc.), and said coupling device is provided on said carriage and transmits torque from said rotary shaft to said picker allowing relative movement between said rotary shaft and said picker along a longitudinal axis of said rotary shaft.

Re claim 3, Takeshi teaches said rotary shaft (51A,etc.) has a convex portion in cross section, said coupling device (51a,51b,etc.) has a concave portion in cross section, and said convex portion of said rotary shaft fits said concave portion of said coupling device.

Re claim 11, Takeshi teaches said picker comprises a gripper assembly (31,34,etc.) grasping said storage medium 9.

Re claim 12, Takeshi teaches said picker comprises a support structure (31,32,etc.) translating said gripper assembly in a direction toward and away from said holder.

Re claim 13, Takeshi teaches said gripper assembly comprises an arm 34 and a guide 33 guiding said arm, said arm selectively assumes an open position and a closed position, said guide 33 has a curved portion such that said arm moves from said closed position to said open position as said arm approaches said holder and said arm moves from said open position to said closed position as said arm retreats from said holder.

Re claim 14, Takeshi teaches said holder is a library.

Re claim 15, Takeshi teaches said storage medium is housed in a cartridge 9.

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### Claim Rejections - 35 USC § 103

Claims 4,5,8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeshi (2002-025167) in view of Ono (JP 03-147564).

Re claims 4,5, Takeshi is silent regarding the rotary shaft having a polygonal/rectangular shape in cross section. Ono teaches that it is known to have the rotary shaft (30,40) having a polygonal/rectangular shape in cross section. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Takeshi by the general teaching of Ono to have the rotary shaft having a polygonal/rectangular shape in cross section as an equivalent alternative in order to make it easier to grip with a wrench and less likely to have undesired slippage in its couplings.

Re claim 8, Takeshi is teaches the transmission mechanism comprising a gear but is silent regarding a belt. One teaches that it is known to have the transmission mechanism (figures 1,3) comprising a gear and (elastic) belt. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Takeshi by the general teaching of One to have the transmission mechanism a gear and belt in order save weight relative use of all gear or gear and screw assemblies.

Re claim 9, Takeshi as already modified by Ono teaches said belt being elastic.

Re claim 10, Takeshi as already modified by Ono teaches said belt comprising a spring (the elastic belt itself can be considered a spring and also there are springs ... 38,44,etc. with the belts.)

#### Conclusion

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Manes (US 5,848,872) teaches a cam/movement actuated gripper.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Scott Lowe whose telephone number is (571) 272-6929. The examiner can normally be reached on 6:30am-4:30pm M-Th.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Patrick Mackey can be reached on (571)272-6916. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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